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Abstract of the Disclosure

Disclosed are 1) the cDNA and amino acid sequences for novel polypeptide chains useful as subunits of dimeric osteogenic proteins, 2) osteogenic devices comprising these proteins in association with an appropriate carrier matrix, 3) methods of producing the polypeptide chains using recombinant DNA technology, and 4) methods of using the osteogenic devices to mimic the natural course of endochondral bone formation in mammals.